List of Patents and Publications for Applicant's

Patent Documents

INFORMATION DISCLOSURE STATEMENT

Atty. Docket No. Serial No. TAMK:189/HIB 09/010,317

Applicants

Magnus Höök, Joseph M. Patti, Karen L. House-Pompeo, Pietro Speziale, Danny Joh

and Martin J. McGavin

Filing Date: Group: January 21, 1998 1643

(Use several sheets if necessary)

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U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date if App.

Foreign Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
lz	B13	WO 96/04380	02-15-96	PCT			
RZ	B14	WO 96/04381	02-15-96	PCT			

Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
PZ	C42	International Search Report dated November 11, 1998 (PCT/US98/01222) (Atty. Dkt. No. TAMK:189P).
ez	C43	Molinari et al., "The fibronectin-binding protein of Streptococcus pyogenes, SfbI, is involved in the internalization of group A streptococci by epithelial cells," Infect. and Immun. 65:1357-1363, 1997.

Examiner: Kohart Lum Date Considered: 11/29/01

EXAMINER: initial if reference considered, whether or not citation is in conformance with MPÉP609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



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U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date if App.
RZ	A 1	4,784,989	11/15/88	Höök et al.	514	21	09/13/83
1	A2	4,980,279	12/25/90	Peters et al.	435	7	04/15/86
	A3	5,175,096	12/29/92	Höök et al.	435	69.1	05/09/90
	A4	5,189,015	02/23/93	Höök et al.	514	2	12/05/91
	A5	5,320,951	06/14/94	Höök et al.	435	69.1	01/22/93
	A6	5,416,021	05/16/95	Höök et al.	435	252.33	09/23/93
	A7	5,440,014	08/08/95	Höök et al.	530	326	04/28/94
	A8	5,453,489	09/26/95	Ruoslahti et al.	530	350	01/31/92
	A9	5,571,514	11/05/96	Höök <i>et al</i> .	424	190.1	06/13/94
b	A10	5,770,702	06/23/98	Höök et al.	530	388.25	10/07/96

Foreign Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
RZ	B1	WO 97/48727	12/24/97	PCT	-		
1	B2	WO 97/45544	12/04/97	PCT			
	В3	WO 94/10330	05/11/94	PCT	+		
\top	B4	WO 94/18327	08/18/94	PCT			
	B5	WO 92/02555	02/20/92	PCT	—		
	В6	EP 0294349 A2	12/07/88	Europe			
	В7	EP 0294349 A3	12/07/88	Europe			
4	B8	EP 0294349 B1	12/07/88	Europe			

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RZ	В9	EP 0397633	11/14/90	Europe	,	/	
	B10	EP 0163623	12/04/85	Europe	•		
	B11	EP 0342173 A2	11/15/89	Europe	-		
4	B12	EP 0342173 A3	11/15/89	Europe			

Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
P2	C1	Bozzini et al., "Multiple binding sites in fibronectin and the staphylococcal fibronectin receptor," Eur. J. Biochem., 207:327-333, 1992.
1	C2	Ciborowski et al., "Immunological response to a Staphylococcus aureus fibronectin-binding protein," J. Med. Microbiol., 37:376-381, 1992.
	C3	Flock et al., "Cloning and expression of the gene for a fibronectin-binding protein from Staphylococcus aureus," EMBO J., 6:2351-2357, 1987.
	C4	Fröman et al., "Isolation and characterization of a fibronectin receptor from Staphylococcus aureus," J. Biol. Chem., 262:6564-6571, 1987.
	C5	Greene et al., "Adhesion properties of mutants of Staphylococcus aureus defective in fibronectin-binding proteins and studies on the expression of fnb genes," Mol. Microbiol. 17:1143-1152, 1995.
	C6	Hanski and Caparon, "Protein F, a fibronectin binding protein, is an adhesin of the group A streptococcus Streptococcus pyogenes," Proc. Natl. Acad. Sci., 89:6172-6176, 1992.
	C7	Hanski et al., "Expression of protein F, the fibronectin-binding protein of Streptococcus pyogenes JRS4, in heterologous streptococcal and enterococcal strains promotes their adherence to respiratory epithelial cells," Infect. Immun., 60(12):5119-5125, 1992.
4	C8	Homonylo-McGavin et al., "Identification of a Staphylococcus aureus extracellular matrix-binding protein with broad specificity," Infect. and Immun., 61:2479-2485, 1993.

Examiner:	Kohan	Ā	time	Date Considered:	11/29/01

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U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date if App.			
ez	C9		House-Pompeo et al., "Conformational changes in the fibronectin binding MSCRAMMs are induced by ligand binding," J. Biol. Chem. 271:1379-1384, 1996.							
	C10	D-motifs from its	binding prote	erminal fragments of ein on <i>Staphylococo</i> 9:15563-15570, 199	cus aureus		thetic and recombinant ng fluorescence			
	C11	Joh et al., "Fibron Biochemistry, 33:			ive bacteri	a: Compari	son of Active Sites,"			
	C12		olete nucleotic	de sequence and ch			s in Staphylococcus econd gene," Eur. J.			
	C13	Kline et al., "Identification of a fibronectin-binding protein GfbA in pathogenic group G streptococci," <i>Infect. Immun.</i> 64:2122-2129, 1996.								
	C14			ization of a novel fi d., 17:137-145, 199		-binding sur	face protein in group A			
	C15	1 7.	•	d adherence to traus cus aureus," Infect.			es by a low-fibronectin 2.1989.			
	C16						similis: characterization biology, 41:235-247,			
	C17		Lindgren et al., "Cloning and expression of two different genes from Streptococcus dysgalactiae encoding fibronectin receptors," J. Biol. Chem., 267:1924-1931, 1992.							
	C18	Lindgren et al., "Two different genes coding for fibronectin-binding proteins from Streptococcus dysgalactiae - the complete nucleotide sequences and characterization of the binding domains," Eur. J. Biochem., 214:819-827, 1993.								
4	C19	McGavin et al., "receptor," J. Biol.			s of the Sta	aphylococci	us aureus fibronectin			

Examiner: Robert Lem Date Considered: 11/29/61

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Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date if App.			
RZ	C20	McGavin et al., "Fibronectin receptors from Streptococcus dysgalactiae and Staphylococcus aureus: Involvement of conserved residues in ligand binding," J. Biol. Chem. 268:23946-23953, 1993.								
	C21			CR and analysis of aylococcal isolates,			bronectin-binding city, 42:96-101, 1995.			
	C22			ng peptides from the Biol. Chem., 268(
	C23			rotein F act as impo n tissue," J. Clin. I			cell-specific tropism of 994.			
	C24			echanism for group ABO J. 15:989-998		coccal adhe	rence through protein F			
	C25	Patti and Höök, "Microbial adhesins recognizing extracellular matrix macromolecules," Curr. Opin. Cell Biol. 6:752-758, 1994.								
	C26	Patti et al., "MSC Microbiol. 48:585		iated adherence of 1	nicroorga	nisms to hos	st tissues," Annu. Rev.			
	C27	Potts and Campbe 655, 1994.	ell, "Fibronec	tin structure and ass	sembly," (Curr. Opin.	Cell Biol., 6(5):648-			
	C28						t of Staphylococcus 58(8):2593-2598, 1990.			
	C29			ce of the serum opa			Streptococci: munity, 63(2):622-631,			
	C30	Rozalska et al., "Staphylococcus aureus fibronectin-binding proteins FnBPs: Identification of antigenic epitopes using polyclonal antibodies," APMIS 102:112-118, 1994.								
	C31	Rozalska and Wadström, "Protective opsonic activity of antibodies against fibronectin-binding proteins (FnBPs) of <i>Staphylococcus aureus</i> ," <i>Scand. J. Immunol.</i> , 37:575-580, 1993.								
4	C32			esin of <i>Streptococcu</i> cobiol., 10:1049-10		s binds to f	ibronectin via two			

	<u> </u>	/		
Examiner:	1	Date Considered:	11/2	9/0/

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U.S. Patent Documents

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FZ	C33	Signäs et al., "Nucleotide sequence of the gene for a fibronectin binding protein from Staphylococcus aureus: Use of this peptide sequence in the synthesis of biologically active peptides," Proc. Natl. Acad. Sci. USA. 86:699-703, 1989.								
	C34	Speziale et al., "Fibronectin binding to a Streptococcus pyogenes strain," J. Bact., 157:420-427, 1984.								
	C35	Speziale et al., "A monoclonal antibody enhances ligand binding of fibronectin MSCRAMM (adhesin) from S. dysgalactiae," J. Biol. Chem. 271:1371-1378, 1996.								
	C36	Strong et al., "Isolation, characterization and synthesis of peptides from human fibrinogen that block the staphylococcal clumping reaction and construction of a synthetic clumping particle," Biochemistry, 21:1414-1420, 1982.								
	C37	Sun et al., "Identification of D motif epitopes in Staphylococcus aureus fibronectin-binding protein for the production of antibody inhibitors of fibronectin binding," Infection and Immunity, 65(2): ,1997.								
	C38	Talay et al., "Fibronectin-binding protein of Streptococcus pyogenes: Sequence of the binding domain involved in adherence of streptococci to epithelial cells," Infect. Immun., 60:3837-3844, 1992.								
	C39	Talay et al., "Domain structure and conserved epitopes of Sfb protein, the fibronectin-binding adhesin of Streptococcus pyogenes," Mol. Microbiol., 13(3):531-539, 1994.								
	C40	Valentin-Weigand et al., "The fibronectin binding domain of the Sfb protein adhesin of Sttreptococcus pyogenes occurs in many group A streptococci and does not cross-react with heart myosin," Microbial Pathogenesis, 17:111-120, 1994.								
	C41	Vaudaux et al., "Fibronectin is more active than fibrin or fibrinogen in promoting Staphylococcus aureus adherence to inserted intravascular catheters," J. Infect. Dis. 160:865-875, 1993.								

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